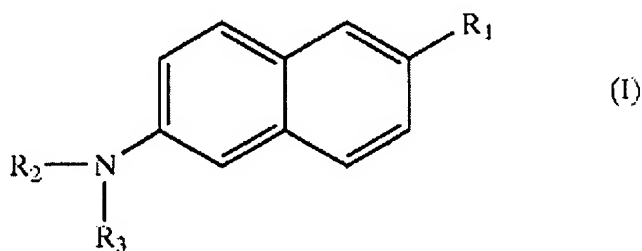


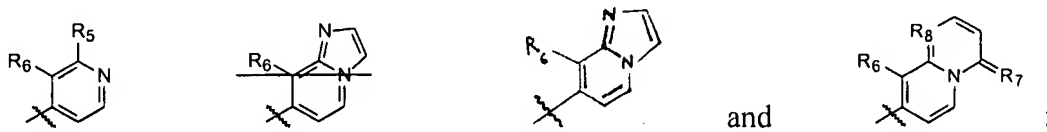
**Amendments to the Specification:**

On page 3, lines 2-19, please amend the paragraph to read as follows:

"The present invention provides methods for labeling structures, including beta-amyloid plaques and neurofibrillary tangles, *in vivo* and *in vitro*, and comprises contacting a compound of formula (I):



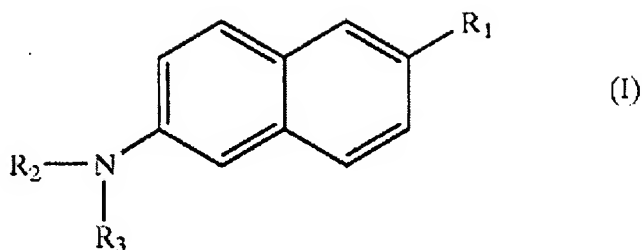
with mammalian tissue. In formula (I), R<sub>1</sub> is selected from the group consisting of -C(O)-alkyl, -C(O)-alkylenyl-R<sub>4</sub>, -C(O)O-alkyl, -C(O)O-alkylenyl R<sub>4</sub>, -C=C(CN)<sub>2</sub>-alkyl, -C=C(CN)<sub>2</sub>-alkylenyl-R<sub>4</sub>,



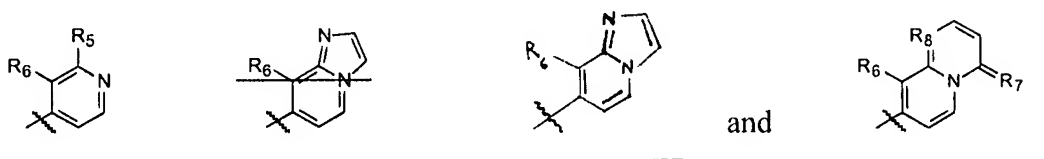
R<sub>4</sub> is a radical selected from the group consisting of alkyl, substituted alkyl, aryl and substituted aryl; R<sub>5</sub> is a radical selected from the group consisting of -NH<sub>2</sub>, -OH, -SH, -NH-alkyl, -NHR<sub>4</sub>, -NH-alkylenyl-R<sub>4</sub>, -O-alkyl, -O-alkylenyl-R<sub>4</sub>, -S-alkyl, and -S-alkylenyl-R<sub>4</sub>; R<sub>6</sub> is a radical selected from the group consisting of -CN, -COOH, -C(O)O-alkyl, -C(O)O-alkylenyl-R<sub>4</sub>, -C(O)-alkyl, -C(O)-alkylenyl-R<sub>4</sub>, -C(O)-halogen, -C(O)NH<sub>2</sub>, -C(O)NH-alkyl, -C(O)NH-alkylenyl-R<sub>4</sub>; R<sub>7</sub> is a radical selected from the group consisting of O, NH, and S; and R<sub>8</sub> is N[[ $\text{O} \leftrightarrow \text{S}$ ]].

On page 4, line 18 to page 5, line 12, please amend the paragraph to read as follows:

" In still another embodiment, the invention is directed to a composition comprising a compound of formula (I):



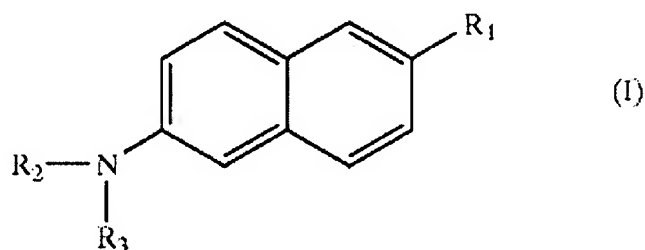
where  $R_1$  is selected from the group consisting of -C(O)-alkyl, -C(O)-alkylenyl- $R_4$ , -C(O)O-alkyl, -C(O)O-alkylenyl- $R_4$ , -C=C(CN)<sub>2</sub>-alkyl, -C=C(CN)<sub>2</sub>-alkylenyl- $R_4$ ,



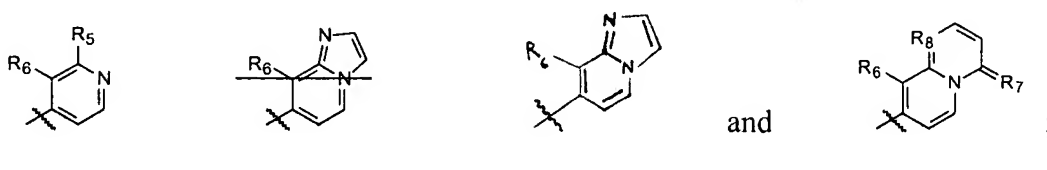
$R_4$  is a radical selected from the group consisting of alkyl, substituted alkyl, aryl and substituted aryl;  $R_5$  is a radical selected from the group consisting of -NH<sub>2</sub>, -OH, -SH, -NH-alkyl, -NHR<sub>4</sub>, NH-alkylenyl- $R_4$ , -O-alkyl, -O-alkylenyl- $R_4$ , -S-alkyl, and -S-alkylenyl- $R_4$ ;  $R_6$  is a radical selected from the group consisting of -CN, -COOH, -C(O)O-alkyl, -C(O)O-alkylenyl- $R_4$ , -C(O)-alkyl, -C(O)-alkylenyl- $R_4$ , -C(O)-halogen, -C(O)NH<sub>2</sub>, -C(O)NH-alkyl, -C(O)NH-alkylenyl- $R_4$ ;  $R_7$  is a radical selected from the group consisting of O, NH, and S;  $R_8$  is N[[-O or S]];  $R_2$  is selected from the group consisting of alkyl and alkylenyl- $R_5$ ; and  $R_3$  is alkylenyl- $R_5$ ; ~~and  $R_5$  is selected from the group consisting of -OH, -OTs, halogen, spiperone, spiperone ketal, and spiperone-3-yl,~~ or  $R_2$  and  $R_3$  together form a heterocyclic ring, optionally substituted with at least one radical selected from the group consisting of alkyl, alkoxy, OH, OTs, halogen, alkylenyl- $R_5$ , carbonyl, spiperone, spiperone ketal and spiperone-3-yl. One or more of the hydrogen, halogen or carbon atoms can optionally be replaced with a radiolabel.

On page 7, line 19 through page 8, line 10, please amend the paragraph to read as follows:

"The present invention is directed to methods for labeling structures such as  $\beta$ -amyloid plaques and neurofibrillary tangles *in vivo* and *in vitro*. The methods all involve contacting a compound of formula (I):



with mammalian tissue. In formula (I),  $R_1$  is selected from the group consisting of -C(O)-alkyl, -C(O)-alkylenyl- $R_4$ , -C(O)O-alkyl, -C(O)O-alkylenyl- $R_4$ , -C=C(CN)<sub>2</sub>-alkyl, -C=C(CN)<sub>2</sub>-alkylenyl- $R_4$ ,



$R_4$  is a radical selected from the group consisting of alkyl, substituted alkyl, aryl and substituted aryl.  $R_5$  is a radical selected from the group consisting of -NH<sub>2</sub>, -OH, -SH, -NH-alkyl, -NHR<sub>4</sub>, -NH-alkylenyl- $R_4$ , -O-alkyl, -O-alkylenyl- $R_4$ , -S-alkyl, and -S-alkylenyl- $R_4$ .  $R_6$  is a radical selected from the group consisting of -CN, -COOH, -C(O)O-alkyl, -C(O)O-alkylenyl- $R_4$ , -C(O)-alkyl, -C(O)-alkylenyl- $R_4$ , -C(O)-halogen, -C(O)NH<sub>2</sub>, -C(O)NH-alkyl, -C(O)NH-alkylenyl- $R_4$ .  $R_7$  is a radical selected from the group consisting of O, NH, and S[.]; and  $R_8$  is N[~~O~~ or S].